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TITLE: Bidirectional communication
telemetry capsule

INVENTOR: CHO, J H; CHOI, H C ; CHOI, J R

PATENT-ASSIGNEE: UNIV KOREA KYUNGPOOK NAT[UYKON]

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ABSTRACTED-PUB-NO: KR2002089669A

BASIC-ABSTRACT:

NOVELTY - A bidirectional communication telemetry capsule is provided to diagnose accurately an intestine by performing a bidirectional communication function for transmitting images of the intestine to the outside and receiving commands from the outside.

DETAILED DESCRIPTION - A capsule body(10) is inserted into the interior of the body. A lens(20) is installed in the inside of the capsule body(10). An image

sensor(30) is installed in the inside of the capsule(10) for capturing images projected by the lens(20). A light emitting portion(40) emits the light to the front of the capsule body(10). A transmission portion transmits the image signals generated from the image sensor(30). A reception portion receives a control signal from the outside. A pH sensor(70) is used for measuring pH of an intestine. A vital potential sensing electrode is used for measuring EMG(ElectroMyoGram) or ECG(ElectroCardioGram) of the intestine. A stimulus electrode is used for transferring an electric stimulus to the intestine. A pressure sensor(100) is used for measuring a pressure of the intestine. A control portion controls the image sensor(30), the light emitting portion(40), the transmission portion, the reception portion, the pH sensor(70), the vital potential sensing electrode, the stimulus electrode, and the pressure sensor(100). A power supply portion(120) supplies electric power to each components. A couple of antennas(51,61) are installed in the inside of the capsule body(10).

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: BIDIRECTIONAL COMMUNICATE TELEMETRY CAPSULE

DERWENT-CLASS: P31 S05

EPI-CODES: S05-A04; S05-D04;

